



# Test Report on Chinese Domain Name Application (CDNI)



## Test Instruction

The Internet applications for the UA test in this report will be randomly selected from the top ranking download lists of Applications Stores both in Desktop and Mobile, to test the correct resolution, display, and identification of Chinese Domain Name on different terminals.

Note: This test does not cover all applications and terminals.



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# 01

## Test Criteria

# Test Criteria



- Randomly selected 16 Chinese TLDs
- Test for ASCII.中文 and/or 中文.中文
- Test time: August 29, 2022

Mark	Instruction for browser only
A	Can resolve IDN, the address bar correctly displays Chinese domain name, and supports Chinese domain name recognition and jumping
B	The IDN can be resolved, but the Chinese domain name is not displayed in the address bar, and the address bar is filled with web page title information
C	Can resolve IDN, the address bar does not display the Chinese domain name, but the Punycode code could be displayed
D	The IDN cannot be resolved, but the application cannot recognize the Chinese domain name for link jumping

Mark	Instruction for other applications
A	Recognize Chinese domain name and enable link jumping
B	Can not directly identify Chinese domain name, but can identify Chinese domain name and link jumps in the form of Punycode
C	The application does not recognize the Chinese domain name for link jumping

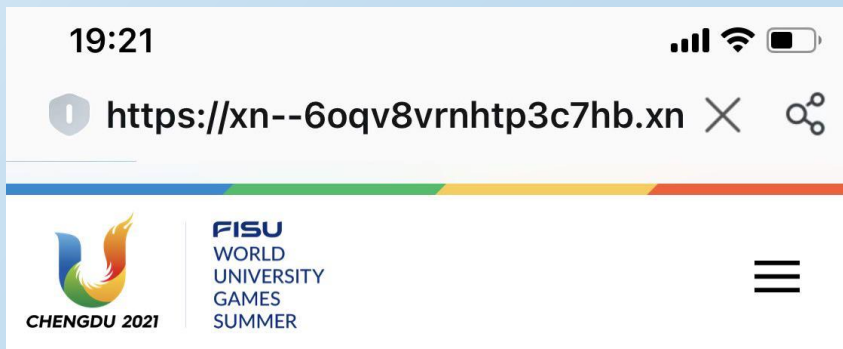
# Browser



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A. Can resolve IDN, the address bar correctly displays Chinese domain name, and supports Chinese domain name recognition and jumping



C. Can resolve IDN, the address bar does not display the Chinese domain name, but the Punycoded code is displayed



B. The IDN can be resolved, but the Chinese domain name is not displayed in the address bar, and the address bar is filled with web page title information



D. The IDN cannot be resolved, and the application cannot recognize the Chinese domain name for link jumping

# Other Applications



<http://knet.cn>  
<http://中国互联网域名体系.中国knet.cn>  
[中国互联网域名体系.中国](http://中国互联网域名体系.中国)

小店购物问题请点击小店客服, 由专业客服人员为您解答。

A. Recognize Chinese domain name and enable link jumping

<http://xn--fiq8ituh5mn9d1qbc28lu5dusc.xn--fiqs8s/>  
<http://中国互联网域名体系.中国>  
[xn--fiq8ituh5mn9d1qbc28lu5dusc.xn--fiqs8s](http://xn--fiq8ituh5mn9d1qbc28lu5dusc.xn--fiqs8s)  
[中国互联网域名体系.中国](http://中国互联网域名体系.中国)



B. Can not directly identify Chinese domain name, but can identify Chinese domain name and link jumps in the form of Punycode

<http://knet.cn>  
<http://中国互联网域名体系.中国knet.cn>  
[中国互联网域名体系.中国](http://中国互联网域名体系.中国)



C. The application does not recognize the Chinese domain name for link jumping





# Chinese full stop "。"

When the user enters the IDN with the Chinese input method, the Chinese full stop "。" should be equivalent to the English character "."

For example, when entering "蓝天救援。中国" in the address bar of the browser, the browser could recognize the input as "蓝天救援.中国" that complies with the IDN specification, and access it correctly.



UC Browser testing .



UC Browser testing .

NO.	IDN	uc Browser		Xiaomi	OPPO
		Android	ios	Android	Android
1	蓝天救援.中国	B	B	B	B
2	蓝天救援。中国	B	B	B	B

Mobile Browser testing





# 02

## Browser Testing

# Browsers



Sogou Browser



QQ Browser



360 Browser

# Test Result



Note: The Mark “-” indicates the test page can not be found.

NO.	IDN	360 Browser				QQ Browser			Sogou Browser		
		Android	ios	mac	pc	Android	ios	pc	Android	ios	pc
1	蓝天救援.中国	C	B	C	A	C	C	A	C	C	A
2	蓝天救援. 中国	D	D	C	A	D	D	A	D	D	A
3	中国作协.公司	B	A	C	A	C	C	A	C	C	A
4	nic.网址	B	B	C	A	C	C	A	C	C	A
5	中网.网址	B	B	A	A	C	C	A	C	C	A
6	nic.商城	B	B	C	A	C	C	A	C	C	A
7	注册局.商城	B	C	C	A	C	C	A	C	C	A
8	gloria.商标	C	A	C	A	C	C	A	C	C	A
9	企业.信息	B	B	C	A	C	C	A	C	C	A
10	nic.手机	B	B	C	A	C	C	A	C	C	A
11	tm.在线	-	-	-	-	-	-	-	-	-	-
12	万达影城.在线	C	A	C	A	C	C	A	C	C	A
13	test3.餐厅	C	A	C	A	C	C	A	C	C	A
14	hkmarket.招聘	-	-	-	-	-	-	-	-	-	-
15	管理机构.招聘	B	D	A	A	C	C	A	C	C	A
16	消息.移动	-	-	-	-	-	-	-	-	-	-

# Browsers



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UC Browser



Huawei



Xiaomi



OPPO

# Mobile Phone Test Result



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Application: UC Browser, Huawei, Xiaomi, OPPO

1. UC Browser, Xiaomi, and OPPO support Chinese domain name to display the title of the website, but cannot directly display.



2. The Punycoded transcoding information displayed in the address bar of Huawei Browser.

# Mobile Phone Browser test result



NO.	IDN.	UC Browser		HUAWEI	XIAOMI	OPPO
		Android	ios	HarmonyOS	Android	Android
1	蓝天救援.中国	B	B	C	B	B
2	蓝天救援。中国	D	B	C	B	B
3	中国作协.公司	A	C	C	B	B
4	nic.网址	B	B	C	B	B
5	中网.网址	B	B	C	B	B
6	nic.商城	B	B	C	B	B
7	注册局.商城	B	B	C	B	B
8	gloria.商标	B	B	C	B	B
9	企业.信息	B	B	C	B	B
10	nic.手机	B	B	C	B	B
11	tm.在线	-	-	-	-	-
12	万达影城.在线	B	B	C	B	B
13	test3.餐厅	B	B	C	B	B
14	hkmarket.招聘	-	-	-	-	-
15	管理机构.招聘	B	B	C	B	B
16	消息.移动	-	-	-	-	-



# 03

## SNS Testing



# Social Networking Application



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WeChat



QQ



钉钉

Dingding



Weibo



MOMO

Momo



Zhihu



Xiaohongshu



图一



图二

Application: WeChat, QQ, Dingding, Momo, Xiaohongshu, Weibo, Zhihu

1. Description of unsupported situation: The sent information contains domain names and http links marked with hyperlinks cannot be identified through Chinese domain names.
2. WeChat and Dingding can identify Chinese Domain Name and jumps linking in the form of Punycode, but cannot directly identify Chinese Domain Name for jumping.

# Social Networking Application Test Result



NO.	IDN.	WeChat				QQ				Dingding				Weibo			Xiaohongshu			Momo		Zhihu		
		Androi d	ios	mac	pc	Androi d	ios	mac	pc	Androi d	ios	mac	pc	Androi d	ios	网页	Androi d	ios	网页	Androi d	ios	Androi d	ios	网页
1	蓝天救援.中国	B	B	B	B	C	C	C	C	B	B	B	B	A	A	A	C	C	C	C	C	A	A	A
2	蓝天救援.中国	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
3	中国作协.公司	B	B	B	B	C	C	C	C	B	B	B	B	A	A	A	C	C	C	C	C	A	A	A
4	nic.网址	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
5	中网.网址	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
6	nic.商城	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
7	注册局.商城	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
8	gloria.商标	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
9	企业.信息	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
10	nic.手机	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
11	tm.在线	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
12	万达影城.在线	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
13	test3.餐厅	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
14	hkmarket.招聘	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
15	管理机构,招聘	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A
16	消息.移动	B	B	B	B	C	C	C	C	B	B	B	B	C	C	C	C	C	C	C	C	A	A	A



# 04

## Mobile SMS Application Testing

# Mobile SMS Application



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Xiaomi



HUAWEI

Huawei



oppo

# Test Result



Test phone: Xiaomi, Huawei, oppo

1. Description of unsupported situation: The sent information contains domain names and http links marked with hyperlinks cannot be identified through Chinese domain name.
2. Xiaomi, Huawei, OPPO and other mobile phones do not support the identification and redirection of Chinese domain names

# Test Result



NO.	IDN.	Xiaomi	Huawei	OPPO
		Android	Android	Android
1	蓝天救援.中国	C	C	C
2	蓝天救援。中国	C	C	C
3	中国作协.公司	C	C	C
4	nic.网址	C	C	C
5	中网.网址	C	C	C
6	nic.商城	C	C	C
7	注册局.商城	C	C	C
8	gloria.商标	C	C	C
9	企业.信息	C	C	C
10	nic.手机	C	C	C
11	tm.在线	C	C	C
12	万达影城.在线	C	C	C
13	test3.餐厅	C	C	C
14	hkmarket.招聘	C	C	C
15	管理机构.招聘	C	C	C
16	消息.移动	C	C	C





# 05

## Short Video Platform Testing

# Short Video



Kuaishou



Douyin

仅打开朋友通知，及时接收朋友消息 >

<http://nic.手机>  
<http://tm.在线>  
<http://万达影城.在线>  
<http://test3.餐厅>  
<http://hkmarket.招聘>  
<http://管理机构,招聘>  
<http://消息.移动>

<http://xn--rss04w53a688e.xn--fiqs8s>  
<http://xn--r6j112gn7fqjcz8u22bf87g>  
<http://xn--fiqs2a45gvxe.xn--55qx5d>  
<http://nic.xn--ses554g>  
<http://xn--fiqx11j.xn--ses554g>  
<http://nic.xn--czru2d>  
<http://xn--26qu4xpon.xn--czru2d>  
<http://gloria.xn--cZR694b>  
<http://xn--vhquv.xn--vuq861b>  
<http://nic.xn--kput3i>  
<http://tm.xn--3ds443g>  
<http://xn--chq31vtlge97c.xn--3ds443g>

Application: Chat room in Douyin, Kuaishou

1. Description of unsupported situation: The sent information contains domain names and http links marked with hyperlinks cannot be identified through Chinese domain name.
2. At present, Kuaishou IOS can fully support the identification and redirection of Chinese domain names, while other clients only support Chinese Domain Name and link redirection in Punycode form
3. Douyin only supports Chinese Domain Name and link jumps in the form of Punycode

# Test Result



NO.	IDN.	Kuaishou			Douyin		
		Android	ios	mac	Android	ios	mac
1	蓝天救援.中国	A	B	B	B	B	B
2	蓝天救援。中国	C	C	C	C	C	C
3	中国作协.公司	A	B	B	B	B	B
4	nic.网址	A	B	B	B	B	B
5	中网.网址	A	B	B	B	B	B
6	nic.商城	A	B	B	B	B	B
7	注册局.商城	A	B	B	B	B	B
8	gloria.商标	A	B	B	B	B	B
9	企业.信息	A	B	B	B	B	B
10	nic.手机	A	B	B	B	B	B
11	tm.在线	A	B	B	B	B	B
12	万达影城.在线	A	B	B	B	B	B
13	test3.餐厅	A	B	B	B	B	B
14	hkmarket.招聘	A	B	B	B	B	B
15	管理机构,招聘	A	B	B	B	B	B
16	消息.移动	A	B	B	B	B	B



# 06

## Search Engine Testing

# Search Engine



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Baidu



Sogou



Toutiao



360

# Test Result



1. Baidu, Sogou, 360 and other search engines do not index enough pages with Chinese domain names.

2. Toutiao search does not support the inclusion and display of Chinese domain names.



# Test Result



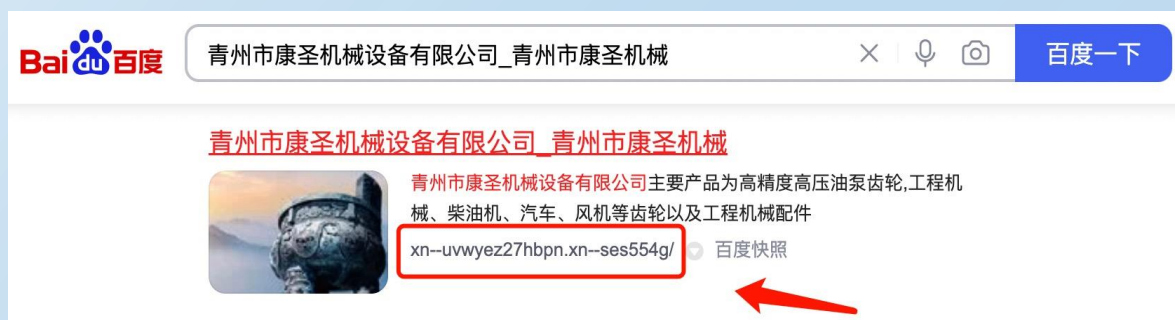
NO.	IDN.	Baidu	Sogou	360 Search	Toutiao Search
		Webpage	Webpage	Webpage	Webpage
1	蓝天救援.中国	C	C	A	C
2	蓝天救援。中国	C	C	C	C
3	中国作协.公司	C	C	C	C
4	nic.网址	A	A	A	C
5	中网.网址	A	A	A	C
6	nic.商城	A	C	A	C
7	注册局.商城	A	C	C	C
8	gloria.商标	C	C	C	C
9	企业.信息	C	C	C	C
10	nic.手机	A	A	A	C
11	tm.在线	C	C	C	C
12	万达影城.在线	C	C	C	C
13	test3.餐厅	C	C	C	C
14	hkmarket.招聘	C	C	C	C
15	管理机构,招聘	A	C	C	C
16	消息.移动	C	C	C	C

# Conclusion



## Ranking Test

Description of the situation not supported: Baidu, Sogou, 360 Search and other search engines give low ratio to websites with Chinese domain names, and the ranking in the search results is much lower than that of websites with English domain names.



## Display Test

Description of the unsupported situation: The Baidu search engine includes the display link as a transcoding display, and the Chinese domain name address cannot be displayed normally in the search results.



# 07

## Online Shopping And e-Payment Testing

# Online Shopping and E-Payment



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JD.com



Taobao



Alibaba



Pinduoduo



微信支付

WeChat Pay



Ali Pay

# Test Result



\* 应用图标:

上传图片  示意图

请上传应用高清图, 支持.jpg .jpeg .png格式, 建议320\*320像素, 小于3M

应用类型:  网页应用  移动应用

网址url:

请填写有效的地址

应用简介:

Application: WeChat Pay, Alipay, Taobao, Alibaba, Pinduoduo, JD.com

1. Situation description which the online shopping application does not support: Taobao (some clients), Alibaba (some clients), Pinduoduo contain domain names and http links marked with hyperlinks in the sent information, which cannot be identified by the Chinese domain name.
2. Situation description which the payment application does not support: When Alipay binds the Chinese domain name URL, it prompts that the format is incorrect or the address is invalid, and the Chinese domain name cannot be bound normally.
3. WeChat payment supports the binding of Chinese domain names, and the interface part supports the binding of Chinese Domain Name in the form of Punycode, which can realize the normal access function.

# Test Result



NO.	IDN.	JD			TaoBao				1688 Alibaba				Pinduoduo		WeChat Pay	Alipay
		Androi d	ios	网页	Androi d	ios	PC	MAC	Androi d	ios	PC	MAC	Androi d	ios	网页	网页
1	蓝天救援.中国	A	A	B	B	B	C	C	B	B	C	C	C	C	A	C
2	蓝天救援.中国	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
3	中国作协.公司	A	A	B	B	B	C	C	B	B	C	C	C	C	A	C
4	nic.网址	B	B	B	B	B	C	C	B	B	C	C	C	C	A	C
5	中网.网址	A	A	B	B	B	C	C	B	B	C	C	C	C	A	C
6	nic.商城	B	B	B	B	B	C	C	B	B	C	C	C	C	A	C
7	注册局.商城	A	A	B	B	B	C	C	B	B	C	C	C	C	A	C
8	gloria.商标	B	B	B	B	B	C	C	B	B	C	C	C	C	A	C
9	企业.信息	A	A	B	B	B	C	C	B	B	C	C	C	C	A	C
10	nic.手机	B	B	B	B	B	C	C	B	B	C	C	C	C	A	C
11	tm.在线	B	B	B	B	B	C	C	B	B	C	C	C	C	A	C
12	万达影城.在线	A	A	B	B	B	C	C	B	B	C	C	C	C	A	C
13	test3.餐厅	B	B	B	B	B	C	C	B	B	C	C	C	C	A	C
14	hkmarket.招聘	B	B	B	B	B	C	C	B	B	C	C	C	C	A	C
15	管理机构.招聘	A	A	B	B	B	C	C	B	B	C	C	C	C	A	C
16	消息.移动	A	A	B	B	B	C	C	B	B	C	C	C	C	A	C



# 08

## Development Platform Testing



# Development Platform



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WeChat Applet



WeChat Official Account



Webmasterhome



Qiniu Cloud



Ali Cloud



Tencent Cloud



Baidu Marketing

# Test Result



**域名配置**

加速区域  中国境内  中国境外  全球

加速域名  ⓘ  
**非英文域名请转punycode后接入。**

加速类型  ▾

CDN和ECDN分别适用于静态资源或动态资源加速。CDN和ECDN的计费方式及价格不同，详情可查看[产品](#)支持修改，如要更换，则需要删除域名后重新添加。

IPv6访问  开启后，支持通过IPv6协议进行访问

**域名配置**

域名类型  普通域名  泛域名  泛子域名

加速域名 ⓘ   
**域名格式不合法，请检查后再输入**

通信协议 ⓘ  HTTP  HTTPS

覆盖范围  中国大陆  海外  全球

使用场景  图片小文件  下载分发  点播平台

IP 协议  IPv4 / IPv6  IPv4

Application: Webmasterhome, Qiniu Cloud CDN, Alibaba Cloud CDN, Tencent Cloud CDN, Baidu Marketing

1. Description of the unsupported situation: WeChat applet, Webmasterhome, Qiniu Cloud CDN, and Baidu Marketing do not support the access and identification of Chinese domain name websites, and an error will be reported when binding.

2. The WeChat official account has been able to normally support the redirection of Chinese domain name recognition.

3. Both Alibaba Cloud CDN and Tencent Cloud CDN support the binding of Chinese Domain Name in the form of Punycode, and can achieve the normal access function.

# Test Result



NO.	IDN.	WeChat Applet	WeChat Official Account	Webmasterhome	Qiniu Cloud CDN	Alibaba Cloud CDN	Tencent Cloud CDN	Baidu Marketing
1	蓝天救援.中国	B	A	C	C	B	B	C
2	蓝天救援。中国	C	C	C	C	C	C	C
3	中国作协.公司	B	A	C	C	B	B	C
4	nic.网址	B	A	C	C	B	B	C
5	中网.网址	B	A	C	C	B	B	C
6	nic.商城	B	A	C	C	B	B	C
7	注册局.商城	B	A	C	C	B	B	C
8	gloria.商标	B	A	C	C	B	B	C
9	企业.信息	B	A	C	C	B	B	C
10	nic.手机	B	A	C	C	B	B	C
11	tm.在线	B	A	C	C	B	B	C
12	万达影城.在线	B	A	C	C	B	B	C
13	test3.餐厅	B	A	C	C	B	B	C
14	hkmarket.招聘	B	A	C	C	B	B	C
15	管理机构.招聘	B	A	C	C	B	B	C
16	消息.移动	B	A	C	C	B	B	C



09

# E-mail Testing

# E-mail



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Tencent Enterprise Mailbox



163 Mailbox



Sohu Mailbox



189 Mailbox



Wo Mailbox



139 Mailbox



126 Mailbox

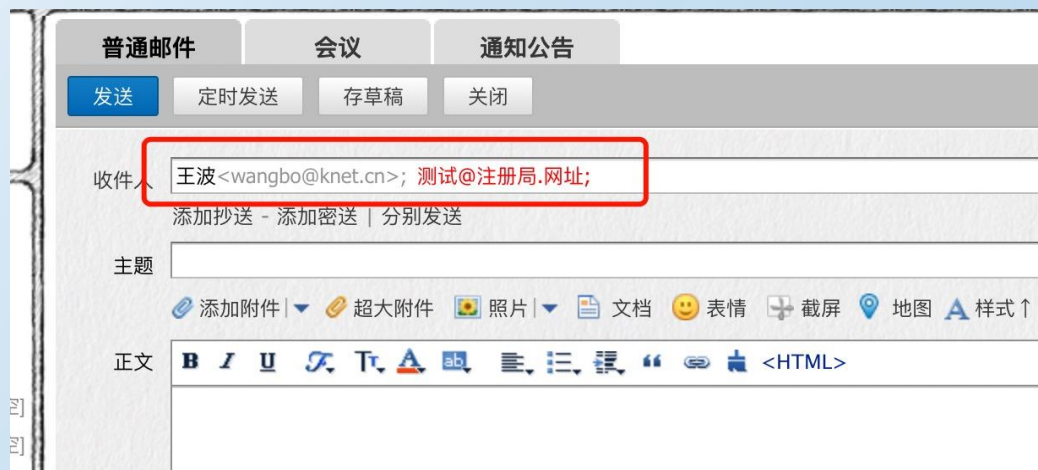


QQ Mailbox  
(new system)

# Test Result



Application: Tencent Enterprise Mailbox, 163 Mailbox, 189 Mailbox, QQ Mailbox (new system), Wo Mailbox, 139 Mailbox, 126 Mailbox, Sohu Mailbox



1. Unsupported situation description: When the mailbox is input with an address with a Chinese domain name as the suffix, it cannot recognize and send emails.

2. Currently mainstream mailboxes do not support Chinese domain names.

3. Only Wo mailboxes and the new version of QQ mailboxes could fully support email addresses with Chinese domain name suffixes.

163 mailboxes and 126 mailboxes only support email addresses with Chinese domain name suffixes in Punycode form.

# Test Result



NO.	IDN.	Tencent Mailbox	163 Mailbox	189Mailbox	QQMailbox	Wo Mailbox	139Mailbox	126Mailbox	Sohu Mailbox
1	蓝天救援.中国	C	B	C	B	A	C	B	C
2	蓝天救援。中国	C	C	C	C	C	C	C	C
3	中国作协.公司	C	B	C	B	A	C	B	C
4	nic.网址	C	B	C	B	A	C	B	C
5	中网.网址	C	B	C	B	A	C	B	C
6	nic.商城	C	B	C	B	A	C	B	C
7	注册局.商城	C	B	C	B	A	C	B	C
8	gloria.商标	C	B	C	B	A	C	B	C
9	企业.信息	C	B	C	B	A	C	B	C
10	nic.手机	C	B	C	B	A	C	B	C
11	tm.在线	C	B	C	B	A	C	B	C
12	万达影城.在线	C	B	C	B	A	C	B	C
13	test3.餐厅	C	B	C	B	A	C	B	C
14	hkmarket.招聘	C	B	C	B	A	C	B	C
15	管理机构.招聘	C	B	C	B	A	C	B	C
16	消息.移动	C	B	C	B	A	C	B	C



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# Input Method Application Testing



# Input Method Application



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Sogou input method



iFLYTEK input method



Application: Sogou input method, iFLYTEK input method

1. Description of the situation not supported: When the input method converts text through voice, it cannot be converted into a Chinese domain name URL normally.
2. After testing, Sogou input method and iFLYTEK input method do not support Chinese domain names.

# Test Result



NO.	IDN.	Sogou Input	iFLYTEK Input
1	蓝天救援.中国	C	C
2	蓝天救援。中国	C	C
3	中国作协.公司	C	C
4	nic.网址	C	C
5	中网.网址	C	C
6	nic.商城	C	C
7	注册局.商城	C	C
8	gloria.商标	C	C
9	企业.信息	C	C
10	nic.手机	C	C
11	tm.在线	C	C
12	万达影城.在线	C	C
13	test3.餐厅	C	C
14	hkmarket.招聘	C	C
15	管理机构,招聘	C	C
16	消息.移动	C	C



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## Conclusion

- ✓ Browsers' support for Chinese Domain Name has gradually improved in recent years, which shows that browser service providers have increasingly realized the importance of UA.
- ✓ Most of the domestic search engines still need to improve the support for Chinese domain names. Some of them have been supported technically, but in practical applications, there will be situations such as low indexing and transcoding display.
- ✓ Mail systems that support sending and receiving of Chinese mail addresses are not yet common, which requires a relatively high investment of resources from the enterprises.
- ✓ Some applications do not fully support Chinese domain names. For example, they can only be displayed in the form of Punycode transcoding.
- ✓ In general, although there are still some deficiencies in the support of Chinese domain names, it is strongly believed that with the continuous advancement of related work the application environment to support Chinese Domain Name will be further improved.



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Thank You!